## WHAT IS CLAIMED IS:

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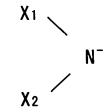
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1. A flame-retardant seamless belt composed of a thermoplastic composition containing a polyester thermoplastic elastomer as a main component thereof; at not less than 15 wt% nor more than 40 wt% of melamine cyanurate, serving as a flame-retardant additive, for a whole weight of said thermoplastic composition; and not less than 0.01 parts by weight nor more than three parts by weight of an anion-containing salt, shown by a chemical formula 1 shown below, for 100 parts by weight of an entire polymer component,

wherein said thermoplastic composition has a volume resistivity of not less than  $1.0\times 10^6\,\Omega\cdot$  cm nor more than  $1.0\times 10^{12}\,\Omega\cdot$  cm.

Chemical Formula 1



where  $X_1$  and  $X_2$  denote functional group, containing C, -F, and -SO<sub>2</sub>-, whose number of carbon atoms is one to eight.

- 2. The flame-retardant seamless belt according to claim 1, wherein said  $X_1-$  of said chemical formula 1 is
- $C_{n1}H_{m1}F\left(_{2n1-m1+1}\right)-SO_2-\text{, and said }X_2-\text{ of said chemical formula 1 is } \\ C_{n2}H_{m2}F\left(_{2n2-m2+1}\right)-SO_2-\text{ (n1 and n2 are integers not less than 1, and } \\ m1 \text{ and } m2 \text{ are integers not less than 0)}.$

- 3. The flame-retardant seamless belt according to claim 1, wherein a cation making a pair with said anion, shown by said chemical formula 1, which constitutes said salt is a cation of any one of alkali metals, group 2A metals, transition metals, and amphoteric metals.
- The flame-retardant seamless belt according to claim
  wherein a metal constituting said cation is lithium.
- The flame-retardant seamless belt according to claim
  wherein said anion-containing salt is lithium-bis
  (trifluoromethanesulfonyl) imide.

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- 6. The flame-retardant seamless belt according to claim 1, wherein said anion-containing salt shown by said chemical formula 1 is added to said entire polymer component without intermediary of a medium consisting of a low-molecular-weight polyether-containing compound or a low-molecular-weight polar compound whose molecular weight is not more than 10000.
- 7. The flame-retardant seamless belt according to claim 1, wherein supposing that a volume resistivity of said flame-retardant seamless belt measured at a low temperature of  $10^{\circ}\text{C}$  and a low humidity of 15% is  $R_{LL}$  and that a volume resistivity thereof measured at a high temperature of  $32.5^{\circ}\text{C}$  and a high humidity of 90% is  $R_{HH}$ , the volume resistivity  $R_{LL}$  and the volume resistivity  $R_{HH}$  satisfy an equation of  $\log_{10}R_{LL}$  - $\log_{10}R_{HH} \leq 2.5$ .
- 25 8. The flame-retardant seamless belt according to claim

- 1, having at least one coating layer on a peripheral surface thereof.
- 9. A method of manufacturing a flame-retardant seamless belt comprising the steps of:

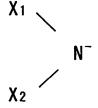
fusing and kneading, by an extruder, a conductive master batch containing a polyester thermoplastic elastomer and not less than one wt% nor more than 20 wt% of an anion-containing salt, shown below by a chemical formula 1, added to said polyester thermoplastic elastomer; a flame-retardant additive; and a thermoplastic composition containing said polyester thermoplastic elastomer as a main component thereof to form a material for said flame-retardant seamless belt; and

extruding said material from an annular die and molding said material into a shape of a belt by using a sizing die.

## 15 Chemical Formula 1

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Where  $X_1$  and  $X_2$  denote functional group which contains C, -F, and -SO<sub>2</sub>- and in which the number of carbon atoms is one to eight.

20 10. The method according to claim 9, wherein said flameretardant additive and said thermoplastic composition containing said polyester thermoplastic elastomer as said main component thereof are kneaded and supplied to said extruder as a flame-retardant master batch; and said mixture of said conductive master batch and said flame-retardant master batch are extruded vertically from said annular die.

5 11. An image-forming apparatus having said flameretardant seamless belt according to claim 1.